



Volume 25

An ARCEC Monthly Publication

September 2016

Counterpoise Editor - Sue Robins AF6LJ

Annual ARCEC Picnic

By Sue Robins AF6LJ

It was a warm sunny day in the quiet community of Crest, a wonderful setting for a picnic. It was our annual club picnic, and the weather was ideal. We had around a dozen club members join us for the festivities, sometimes more, sometimes less than that dozen. Sometimes fitting a picnic into an otherwise busy schedule can be challenging.

The food was wonderful people brought great side dishes, and other goodies for club members to enjoy. Dave our club president was skillfully serving up hot dogs and hamburgers to all who wanted them. I had such a great time I forgot to take any pictures. As consolation for my not fulfilling my duties I shall offer up a couple of pictures from last year's picnic. *****



ARCEC Repeater Frequencies

2 Meter Repeater	220 MHZ Repeater	440 MHZ Repeater
TX 146.475	TX 222.480	TX 440.900
RX 147.420	RX 224.080	RX 445.900
Offset .945	Offset 1.6	Offset 5.00
PL 107.2	PL 107.2	PL 107.2



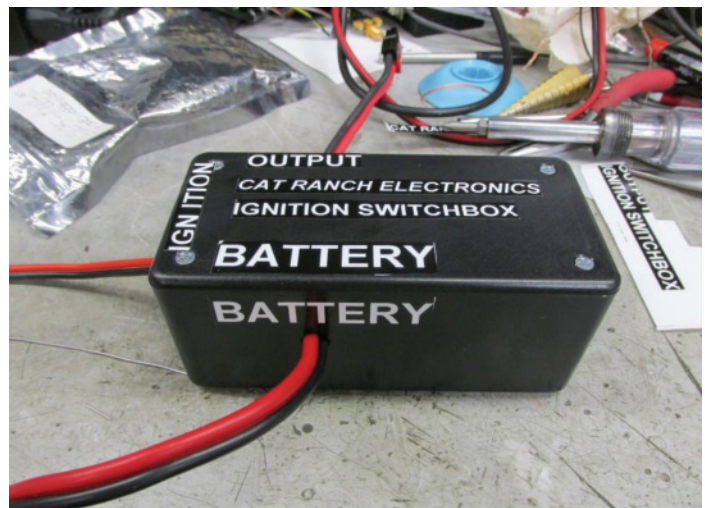
Building An Amateur Radio Car

Pictures by Pat WA6MHZ, and Sue AF6LJ



Pat Bunsold, WA6MHZ put on a great presentation on installing amateur radio gear into a vehicle while drilling as few holes into the vehicle as possible. Before getting into the gritty details of accomplishing this formidable task Pat provide us with a history of his mobile installations, and the issues he had to overcome in order to make them successful "Amateur Radio Cars". This history lesson took us through three cars and a van. Pat walked us through building custom devices for power control, battery boosting and other items that make fitting everything together so much easier.

The latest installation was built in a Ford Flex all wheel drive Crossover. The objective was to install an amateur radio station that would operate from 75-2 meters, 220 MHZ, 440 MHZ and to top it off APRS. There is a great deal of preparation that goes into such a complex install. A luggage rack was added at the dealer to facilitate mounting antennas, 4 of them I might add. Concurrent with the radio installation a back up camera would be added. Obstacles like getting enough power into the drivers compartment without drilling holes through the firewall had to be worked out. This was very easily accomplished by finding an alternative route. Power switching for the APRS was needed, as leaving it on continuously was not wanted. A custom rack was built for holding control heads The Installation came together very well.



For more information on this project visit

<https://forums.qrz.com/index.php?threads/the-process-of-building-an-amateur-radio-car.527351/>

Harbor Freight Field Strength Meter

Jerry Vaughn KK6QHZ

After ARCEC was kind enough to provide the info and the parts to build a field strength meter using a Harbor Freight DVM, I think a big thank you is in order!

The only glitch in the project was that the banana jack took up a bit too much space in the case and required a modification to the perf board to get it to fit. I tested it out with my Kenwood TH-F6 HT. The voltage displayed was proportional to the power setting on the HT. A successful build!



Voltage from RF noise



500 milliwatts 10 feet awa

Fry's Operating Day

Hello All! It is my privilege to invite each of you and the organizations you represent to be a participant in OPERATING DAY at Fry's Electronics San Diego store parking lot on Sunday November 6, 2016. This is an opportunity to participate in a tremendous exercise, and opportunity to put Amateur Radio on the map and in the public eye at Fry's Electronics store located at 9825 Stonecrest Blvd., San Diego, just off Fwy. 15 and Aero Dr. We will be setting up at 7:00 a.m. and run until about 4 p.m. Map; <http://www.mapquest.com/#d4d793b7fcebce4f37aafe45>. We will set up in the northeast quadrant of the parking lot. Be sure to get your space cleared with me, only because we want to conserve space for the store, and because we have larger mobile and trailer rigs that must be parked strategically. Thanks for your cooperation!

"OPERATING DAY" occurs twice each year and can be our combined effort to demonstrate to the public the communications value, uniqueness and the fun of being a licensed amateur radio operator. As you can see, we hope to have



ALL of you setting up various modes of ham radio operations and emergency preparedness operations so that (1) the public can see our skills, (2) we can talk should to shoulder with folks, describing our operations, (3) those so interested can become involved in communication demonstrations first hand, and (4) have a lot of fun with eye-ball QSOs with other hams.

I am encouraging each group to bring your club mobile units, radios, demos, tri-fold boards, flyers, applications, and information, etc. Wear your club colors! This is a community effort and we want all to succeed. We know that when there are a number of groups operating together, there will be some QRM because of band overlap, proximity, etc. I would encourage each of us to be able to sign up folks that are interested, making the guests and visitors our first priority. It's easy to get involved with our own ham friends, and that's good, but let's give priority to the general public.

Particular thanks to Fry's Electronics store and Mr. Paul Ardolina, and his staff for allowing us the use of their facilities for this event! Please patronize this fine company. Also thanks to the Palomar club (PARC) whose idea this was originally and invited SDSSARC to work the San Diego Fry's store simultaneously as PARC was working the San Marcos store.

Thanks guys! We will stay in touch. PLEASE EMAIL ME AS TO YOUR ORGANIZATION'S PARTICIPATION. I must stay in touch with Fry's, so I really am counting on you letting me know whether or not you will be participating and what your parking space needs will be. I hope we have 100% participation and representation.

73 Joe Acevedo, N6SIX Vice President
San Diego Six Shooters ARC

Swap Meet Listings

The Amateur Radio Club of El Cajon has a Swap Meet listing page on our website and here in Counterpoise, Have something you want to buy, sell, or trade list it with us. See <http://wa6bgs.us/swapmeetlegal.html> for more listings and posting guidelines. This is a free service to our members.

Youth Net

A new net, Youth Ham net begins on Thursday night, July 21, 2016. This net is aimed toward young hams. The net will be on every Thursday (except Club Meeting Thursdays) from 7-8 PM on the El Cajon 2 meter repeater. If you are a young ham, or a new ham this net is for you.

New Resources



Trojan
BATTERY COMPANY

LIFELINE
The Heart of Your System

ACDelco

Deka
SPORTS POWER

ODYSSEY
BATTERY

OPTIMA
BATTERIES

New Battery Supply & Battery Recycling for SD

New Marine Battery-Heavy Equipment Battery-Tuck/Auto

619Battery.com

Shop 619-448-5323
Mobile 619-315-5604 Call/Text

1985 Friendship Dr B
El Cajon 92020

Jeff Schwen

Recently Mark KB6PJU and Terry K6TRY had some tree trimming done by one of the local tree trimming services. As often happens the question regarding all that wire and stuff in the air came up. It was explained they are amateur radio operators. Another question came up in their conversation, that being can their bucket truck be used for hanging wire antennas and the like? Well it turns out this company will for a reasonable cost lend the services of their bucket truck for the purpose of minor antenna work. Mark and Terry thought it would be good to pass this information along. And there you have it another very useful service made available to us amateur radio operators. There is a cost involved, however I am told it is reasonable.



Heilig's Tree Service

Licensed - Bonded - Insured

Ron Heilig
Owner

Ph. (619) 445-7113
Fax. (619) 441-9639

Membership Badges & Pins

All members of the Amateur Radio Club of El Cajon who might wish to obtain a membership badge can contact Dell Awards and place an order with them. They are our current preferred source for these badges, and have our logo and design on file and ready to create a custom badge for members. Current price is \$7.50 per badge and they have indicated that there is normally a 3 business day turnaround time. These are quality badges made by a long established company, so place yours on order soon. They can be reached at the below address and phone number, and be sure to mention you saw this blurb in the Counterpoise newsletter too.

Dell Awards
7949 Broadway
Lemon Grove, CA 91945
(619) 469-2100
Hours: Mon-Fri 9:30am-5:30pm
Sat 10am-1pm
Sun - Closed

Club Pins Now Available:

They have arrived! A limited number of club pins are now here and can be obtained from our Treasurer at most club functions. These are 1" diameter pins with a rubber clutch pin on rear. You can now show the world your support of the Amateur Radio Club of El Cajon, and for the small cost of \$3.00 each too. Get them while they are available.



The San Diego Morse Code Practice Group

Mark KB6PJU has been conducting a code practice group on the WA6BGS VHF repeater. The code practice Group meets at 7:00 PM Pacific time on Fridays. If you want to learn Mores Code, hone your skills, and improve your speed the San Diego Morse Code Practice Group is for you.

You can discuss the San Diego Morse Code Practice Group here;

<http://www.arrl.org/forum/topics/view/1536>

And here;

<https://forums.qrz.com/index.php?threads/new-2-meter-repeater-cw-teaching-method-developed.492738/>

Our Tower Trailer Needs A New Home

The current storage location for the club's antenna tower will not be available very soon. The club is looking for a volunteer willing to store the tower trailer. The new location must be secure, and 24 hour access is highly desired. If anyone wants to volunteer to store the trailer, or, has any suggestions on where to store the antenna trailer, please contact any officer or board member.





The **AMATEUR RADIO CLUB OF EL CAJON** Inc.
WA6BGS

Post Office Box Fifty, El Cajon California 92022

Founded 1960 ~ Incorporated 1976

Please fill out this form and then see options at bottom for submitting to the club

Date of application: ___ / ___ / ___

Amount Paid: \$ _____ Cash Check Check # _____

Membership Type: Individual (\$20/year) Family* (\$35/year)

Membership Status: New Renewal Returning Member

Call Sign First Name _____ Last Name _____

If a previous member, what was your WAMO number?

ARRL Member: Yes No

License Class: Technician General Extra Other

Email Address (required) _____

Phone Number (optional) _____

**Use another sheet of paper to add Family members and please include the following information:*

First Name, Last Name, Call Sign (if any), License Class, Wamo Number (if any), & Email Address.

Submitting this form:

To submit this form, you can mail it to:

**Amateur Radio Club of El Cajon
P.O. Box 50
El Cajon, CA 92022**

-OR-

Bring it to the next club meeting on the second Thursday of each month. You can find the date and location by getting online at www.wa6bgs.us which is the club website. Check it out for the most current information regarding the club.

Cash Payments - Get a receipt from the Club Treasurer. Please make all checks payable to AMATEUR RADIO CLUB of EL CAJON, Incorporated. Receipts for payments by check will be sent by email or regular mail by the Club Treasurer.

Members with an FCC Call Sign are full members with voting privileges. Members without an FCC Call Sign are Associate members without voting privileges.

YOUR DUES ARE TAX DEDUCTIBLE: Amateur Radio Club of El Cajon, Inc. Is a 501 C 7 Corporation. Donations are NOT tax deductible.

Email address and phone number are to allow club officers to contact members regarding club business and information of interest.